

Description

Mi-Wave's 635 series Magic Tee consist of three mutually perpendicular flanged sections of a standard waveguide. Power applied to H plane port is divided between the two in-line ports of the main tee section to result in equal power, in-phase output signals. Power applied to E plane port is divided between the two in-line ports of the main tee section to result in equal power, opposite-phase output signals.

Notes

Standard products meet full performance specifications over 80% of the waveguide band, with slightly degraded performance over the balance of the band.

S/N: N/A

Electrical Specifications

	Minimal	Typical	Maximum
Frequency	75 GHz		110 GHz
Insertion Loss		1.5 dB	
Isolation E plane to H plane		20 dB	
Isolation Collinear arms		20 dB	
VSWR, H plane		1.5:1	
VSWR, E plane		1.6:1	
Power Imbalance		±0.5 dB	

Physical Specifications

Input and Output Ports	WR-10 Waveguide
Flange	UG-387/U-M Flange
Material Type	Brass or Aluminum
Finish	Gold Plated

Tested by: MS

Date: 2021-04-12

